

The Commissioner is authorized to charge the requisite fee of \$790.00 for the RCE, the requisite fee of \$120.00 for a one-month extension of time, the fee of \$400 for additional claims, and any fee which may be required to Deposit Account No. 50-2402; Order No. 15SV5653/YOD (GEMS:0110).

### AMENDMENTS TO THE CLAIMS

The following is a complete listing of the claims, which replace all previous versions and listings of the claims.

1. (currently amended) A method for ~~commanding operations on a controlled computer via a controlling computer in a collaborative computing environment, the method comprising the steps of~~ servicing a medical system or device, comprising:

generating a screen display at a controlled computer based upon a program run by the controlled computer;

transmitting data representative of the screen display from the controlled computer to a controlling computer;

storing the data representative of the screen display in memory at the controlling computer;

transmitting input event data representative of an input event from the controlling computer to the controlled computer;

identifying a logical block of the screen display affected by the input event at the controlled computer based upon the program and the input event data;

transmitting data corresponding to the logical block from the controlled computer to the controlling computer; ~~and~~

~~eaching storing~~ display data for at least the logical block in memory at the controlling computer; and

displaying merged data representative of the logical block and the screen display on the controlling computer.

2. (currently amended) The method of claim 1, comprising the step of ~~eaching~~ storing at least the data corresponding to the logical block at the controlled computer.
3. (original) The method of claim 1, wherein the data corresponding to the logical block includes data representative of coordinates of a perimeter of the logical block.
4. (original) The method of claim 1, wherein the program is resident at and is run on the controlled computer.
5. (original) The method of claim 1, wherein the input event includes a signal generated on an operator input device.
6. (original) The method of claim 5, wherein the operator input device includes a computer mouse.
7. (original) The method of claim 1, wherein the input event data includes a screen location of an operator selected input.
8. (currently amended) The method of claim 1, comprising ~~the step of~~ executing an instruction via the controlled computer based upon the input event.
9. (cancelled)
10. (cancelled)

11. (currently amended) A method for controlling operation of a controlled computer via a controlling computer ~~in a collaborative environment~~, the method comprising ~~the steps of:~~

displaying an interface screen at a controlled computer based upon a program run by the controlled computer;

transmitting screen data representative of the screen for display at a controlling computer coupled to the controlled computer via a network, wherein the screen data representative of the screen is stored in memory at the controlling computer;

transmitting input event data from the controlling computer to the controlled computer via the network;

designating a portion of the screen at the controlled computer based upon the input event data and the program;

transmitting screen data representative of the portion to the controlling computer to update the display at the controlling computer, wherein the screen data representative of the portion is stored in memory ~~eaching the portion of the screen~~ at the controlling and  
~~controlled~~ computers; and

executing a command based upon the input event data.

12. (original) The method of claim 11, wherein the input event data includes data identifying a location of a graphical element on the screen.

13. (original) The method of claim 12, wherein the portion of the screen is designated based upon functionality of the portion at the location as defined by the program.

14. (currently amended) The method of claim 11, wherein the portion of the screen is ~~eached~~ stored at the controlling computer by transmitting data indicative of limits of the portion from the controlled computer to the controlling computer, and capturing the portion of the screen within the limits.

15. (original) The method of claim 11, comprising the step of transmitting from the controlled computer to the controlling computer background data representative of a portion of a screen beneath the portion.

16. (original) The method of claim 15, wherein the command includes movement of the portion, and wherein the background data is referenced to fill a section of the screen from which the portion is moved.

17. (original) The method of claim 11, wherein the portion includes a display window.

18. (original) The method of claim 11, wherein the portion includes a graphical input device.

19. (currently amended) The method of claim 11, wherein the network includes the Internet.

20. (currently amended) A method for remotely controlling a computer ~~sharing control of a controlled computer via in a collaborative environment~~, the method comprising ~~the steps of~~:

displaying an interface screen at a controlled computer based upon a program run by the controlled computer;

transmitting screen data representative of the screen for display at plurality of controlling computers coupled to the controlled computer via a network;

storing the transmitted screen data representative of the screen in memory at the plurality of controlling computers;

transmitting input event data from at least one of the controlling computers to the controlled computer via the network;

designating a portion of the screen at the controlled computer based upon the input event data and the program;

transmitting screen data representative of the portion of the screen for display at the plurality of controlling computers;

~~eaching~~ storing the transmitted screen data representative of the portion of the screen at least in memory at the controlling computers; and  
executing a command based upon the input event data.

21. (original) The method of claim 20, wherein the input event data includes data identifying a location of a graphical element on the screen.

22. (currently amended) The method of claim 20, wherein the portion of the screen is ~~eached~~ stored at the controlling computers by transmitting data indicative of limits of the portion from the controlled computer to the controlling computers, and capturing the portion of the screen within the limits.

23. (original) The method of claim 20, comprising the step of transmitting from the controlled computer to the controlling computers background data representative of a portion of a screen beneath the portion.

24. (currently amended) ~~A collaborative computing system~~ for remotely interfacing with a controlled device, the system comprising:

a controlled computer configured to run a program and to display a user interface screen based upon the program, wherein the program is resident at and runs on the controlled computer;

a controlling computer linked to the controlled computer via a network, the controlling computer receiving screen data via the network for display of the interface screen;

a ~~cache~~ memory coupled to the controlling computer and configured to ~~cache~~ store portions of the interface screen identified by the controlled computer based upon input events occurring at the controlling computer and based upon the program,  
wherein the controlled computer is coupled to the controlled device, and wherein instructions corresponding to the input events are executed on the controlled device.

25. (original) The system of claim 24, wherein the controlling computer includes an input device and data representative of input events made via the input device are transmitted to the controlled computer via the network to permit identification of the portions of the interface screen.

26. (currently amended) The system of claim 24, wherein the controlled computer includes a ~~cache~~ memory and is configured to ~~cache~~ store the portions of the interface screen in the memory.

27. (cancelled)

28. (cancelled)

29. (currently amended) The system of claim 24, comprising a plurality of controlling computers linked to the controlled computer via the network, each controlling computer including a ~~cache~~ memory for storing the portions of the interface screen.

30. (new) The system of claim 24, wherein the controlled device comprises a medical diagnostic imaging system and the controlled computer comprises an interface of the medical diagnostic imaging system.

31. (new) The method of claim 1, wherein the controlled computer comprises an interface of the medical system or device.

32. (new) The method of claim 1, comprising remotely servicing the medical system or device via control of the controlled computer by the controlling computer.

33. (new) The method of claim 11, wherein the controlled computer comprises a workstation of a medical system or device.

34. (new) The method of claim 11, comprising remotely servicing a medical system or device via the controlling computer and the controlled computer.

35. (new) A method for remotely controlling a computer, the method comprising:

generating a screen display at a controlled computer based upon a program run by the controlled computer;

transmitting data representative of the screen display to a controlling computer for display at the controlling computer;

storing the data representative of the screen display in memory at the controlling computer;

transmitting input event data representative of an input event from the controlling computer to the controlled computer;

identifying a logical block of the screen display affected by the input event at the controlled computer based upon the program and the input event data;

transmitting data representative of a logical block from the controlled computer to the controlling computer;

storing the data representative of the logical block in memory at the controlling computer; and

updating the display at the controlling computer based on the data representative of the logical block.

36. (new) The method of claim 35, wherein transmitting the data representative of the screen display comprises capturing the screen at the controlled computer.

37. (new) The method of claim 35, wherein the controlled computer is coupled to a machine system and configured to facilitate control of the machine system.